Application No.: 10/789,138
Reply to Office Action dated: August 10, 2007

Reply dated: November 13, 2007

In the Claims:

Please amend Claims 1, 4, 6-9; 12, 14-17, 20, and 22-24; cancel Claims 2, 5, 10, 13, 18,

and 21; and add Claims 25-30 as shown below. Applicant respectfully reserves the right to

prosecute any originally presented claims in a continuing or future application.

1. (Currently Amended) A system for communicating information about server resources

between servers in a cluster, comprising:

a server cluster having a plurality of cluster members servers, including a first server

cluster member and a second server cluster member;

a set of resources or services on said first server cluster member that [[may]] can be

used by other servers members in the cluster; [[and,]]

wherein said first server cluster member sends an advertisement of its services to other

servers in the cluster members,

wherein if said second server cluster member determines [[it]] said second cluster

member is out of synchronization with said first server cluster member, or missed an

advertisement, said second server cluster member makes a <u>Hypertext Transfer Protocol (HTTP)</u>
point-to-point request to said first server cluster member requesting [[anv]] the advertisements

missed: missed, and.

wherein said first server cluster member responds to said HTTP point-to-point request

by sending a HTTP point-to-point response including an update of said first cluster member's

Java Naming and Directory Interface (JNDI) tree updated information to said second server

cluster member.

(Canceled)

3. (Original) The system of claim 1 wherein each member of the cluster receives the

advertisement, but those members who do not need to be updated ignore the advertisement.

- 2 -

Application No.: 10/789,138 Reply to Office Action dated: August 10, 2007 Reply dated: November 13, 2007

4. (Currently Amended) The system of claim 1 wherein a third <u>cluster member server may</u> be <u>is\_newly</u> added to the cluster, and wherein said third <u>cluster member\_server</u> waits for advertisements from said <u>plurality</u> of cluster members and then makes HTTP point-to-point

requests to each cluster member server requesting advertisements [[it]] said third cluster

member missed from that particular cluster member server.

(Canceled)

6. (Currently Amended) The system of claim 1 [[5]] wherein the determination as to

whether the first-second cluster member server is out of synchronization with said first cluster member server, or missed an advertisement, is made by determining that the first cluster

member's server's JNDI tree is out of synchronization with the second cluster member's

server's JNDI tree.

7. (Currently Amended) The system of claim 6 wherein the receipt of updated information

at said second <u>cluster member</u> server is used to synchronize [[its]] <u>said second cluster</u>

member's internal JNDI tree with the resources provided at said first server cluster member.

8. (Currently Amended) The system of claim 5 wherein as part of the advertisement the

first <u>cluster member server</u> packages a JNDI update of all [[if]] <u>of its services and multicasts the</u>

package to all cluster members.

9. (Currently Amended) A method of communicating information about server resources

between servers in a cluster, comprising the steps of:

providing a server cluster including a first cluster member server and a second cluster

member server, and resources operating thereon;

sending an advertisement from said first <u>cluster member</u> server to other <u>cluster</u>

members servers in the cluster announcing the resources or services on said first cluster

member\_server;

- 3 -

Application No.: 10/789,138 Reply to Office Action dated: August 10, 2007

Reply dated: November 13, 2007

subsequently, if said second <u>cluster member server</u> determines [[it]] <u>said second cluster</u> member is out of synchronization with said first <u>cluster member server</u>, or missed an

advertisement, making a <u>Hypertext Transfer Protocol (HTTP)</u> point-to-point request from said

second cluster member server to said first cluster member server requesting [[any]] the

advertisements missed: [[and.]]

receiving a HTTP point-to-point response including an update of said first cluster

member's Java Naming and Directory Interface (JNDI) tree updated information from said first cluster member server at said second cluster member server and updating said second cluster

member server-accordingly.

10. (Canceled)

11. (Original) The method of claim 9 wherein each member of the cluster receives the

advertisement, but those members who do not need to be updated ignore the advertisement.

 (Currently Amended) The method of claim 9 wherein a third <u>cluster member server may</u> be is newly added to the cluster, and wherein said third <u>cluster member server</u> waits for

advertisements from other cluster members and then makes HTTP point-to-point requests to

each cluster member server requesting advertisements [[it]] said third cluster member missed

from that particular cluster member server.

13. (Canceled)

14. (Currently Amended) The method of claim 9 [[13]] wherein the determination as to

whether the first-second cluster member server is out of synchronization with said first cluster member server. or missed an advertisement, is made by determining that the first cluster

member's server's JNDI tree is out of synchronization with the second cluster member's

server's JNDI tree.

- 4 -

Application No.: 10/789,138
Reply to Office Action dated: August 10, 2007
Reply dated: November 13, 2007

15. (Currently Amended) The method of claim 14 wherein the receipt of updated information

at said second <u>cluster\_member\_server</u> is used to synchronize [[its]] <u>said second\_cluster</u>

member's internal JNDI tree with the resources provided at said first cluster member server.

16. (Currently Amended) The system of claim 9 wherein as part of the advertisement the

first <u>cluster member</u> server packages a JNDI update of all if its services and multicasts the

package to all cluster members.

17. (Currently Amended) A computer readable medium including instructions stored thereon

which when executed cause [[the]] a computer or computers to perform the steps of :

providing a server cluster including a first cluster member server and a second cluster

member server, and resources operating thereon;

sending an advertisement from said first cluster member server to other members

servers in the cluster announcing the resources on said first cluster member server:

subsequently, if said second cluster member server determines [[it]] said second cluster

member is out of synchronization with said first <u>cluster member server</u>, or missed an

advertisement, making a Hypertext Transfer Protocol (HTTP) point-to-point request from said

second <u>cluster member</u> <u>server</u> to said first <u>cluster member</u> <u>server</u> requesting [[any]] <u>the</u>

advertisements missed; and,

receiving a HTTP point-to-point response including an update of said first cluster

member's Java Naming and Directory Interface (JNDI) tree updated information from said first

cluster member server at said second cluster member server and updating said second cluster

member server accordingly.

(Canceled)

19. (Original) The computer readable medium of claim 17 wherein each member of the

cluster receives the advertisement, but those members who do not need to be updated ignore

the advertisement.

- 5 -

Application No.: 10/789,138 Reply to Office Action dated: August 10, 2007 Reply dated: November 13, 2007

20. (Currently Amended) The computer readable medium of claim 17 wherein a third <u>cluster</u>

member is server-may be newly added to the cluster, and wherein said third cluster member server waits for advertisements from other cluster members and then makes <u>HTTP</u> point-to-

point requests to each cluster member server requesting advertisements [[it]] said third cluster

member missed from that particular cluster member server.

(Canceled)

22. (Currently Amended) The computer readable medium of claim 17 [[21]] wherein the

determination as to whether the first second cluster member server is out of synchronization with said first cluster member server, or missed an advertisement, is made by determining that

the first cluster member's server's JNDI tree is out of synchronization with the second cluster

member's server's JNDI tree.

23. (Currently Amended) The computer readable medium of claim 22 wherein the receipt of

updated information at said second <u>cluster member server</u> is used to synchronize [[its]] <u>said</u>

second cluster member's internal JNDI tree with the resources provided at said first cluster

member server.

24. (Currently Amended) The computer readable medium of claim 17 wherein as part of the

advertisement the first <u>cluster member server</u> packages a JNDI update of all if its services and

multicasts the package to all cluster members.

25. (New) The system of claim 1 wherein a third cluster member is newly added to the

server cluster, and wherein said third cluster member waits for advertisements from said

plurality of cluster members and then makes a HTTP point-to-point request to a single cluster

member requesting a statedump from said single cluster member.

26. (New) The method of claim 9 wherein a third cluster member is newly added to the

server cluster, and wherein said third cluster member waits for advertisements from other

- 6 -

Application No.: 10/789,138
Reply to Office Action dated: August 10, 2007

Reply dated: November 13, 2007

cluster members and then makes a HTTP point-to-point request to a single cluster member

requesting a statedump from said single cluster member.

27. (New) The computer readable medium of claim 1 wherein a third cluster member is

newly added to the server cluster, and wherein said third cluster member waits for advertisements from other cluster members and then makes a HTTP point-to-point request to a

single cluster member requesting a statedump from said single cluster member.

28. (New) The system of claim 1 wherein making a HTTP point-to-point request comprises

opening a communication socket, sending the HTTP point-to-point request, and closing the

communication socket.

29. (New) The method of claim 9 wherein making a HTTP point-to-point request comprises

opening a communication socket, sending the HTTP point-to-point request, and closing the

communication socket.

30. (New) The computer readable medium of claim 17 wherein making a HTTP point-to-

point request comprises opening a communication socket, sending the HTTP point-to-point

request, and closing the communication socket.

- 7 -

Attorney Docket No.: BEAS-01324US1
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